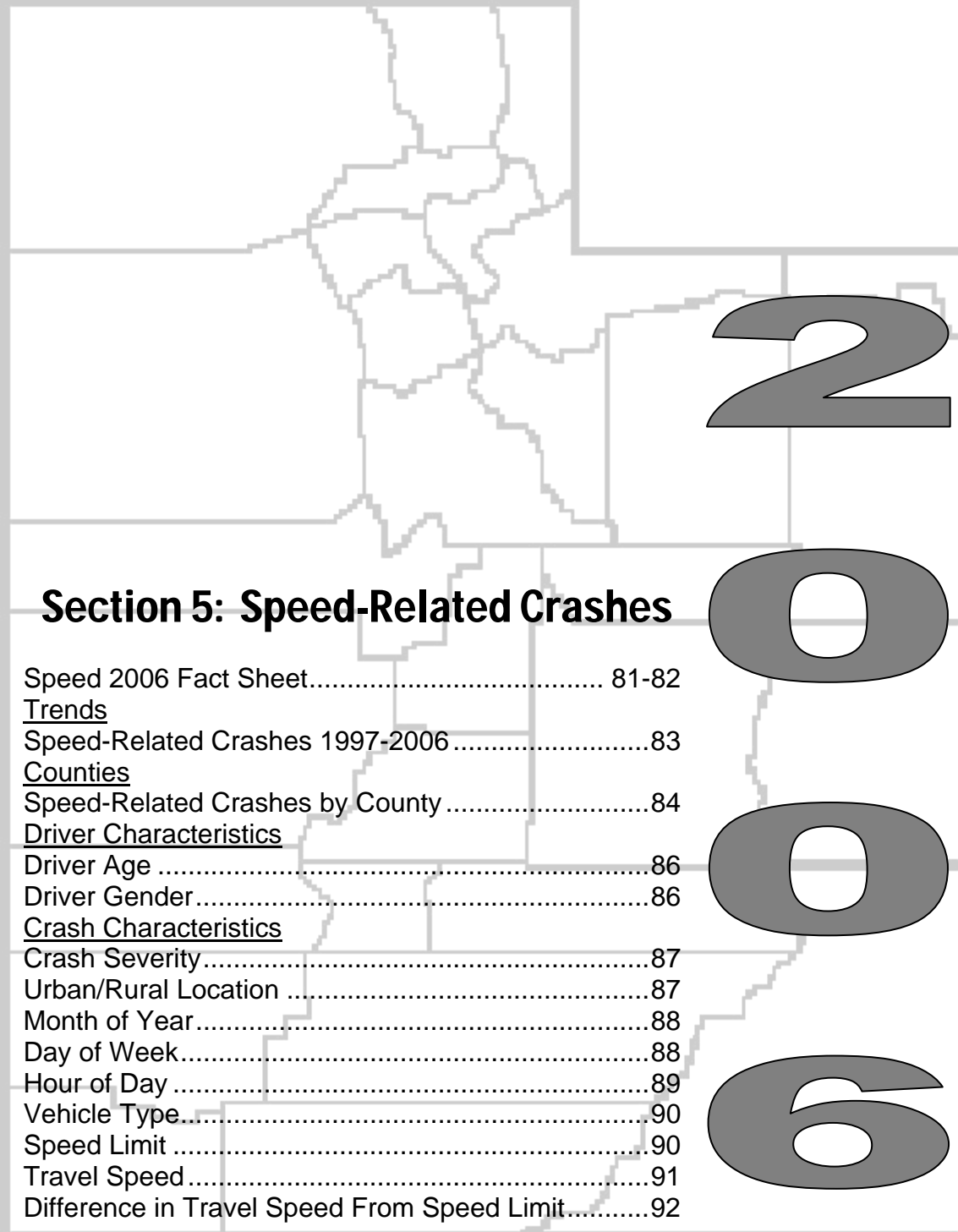


# Speed-Related Crashes



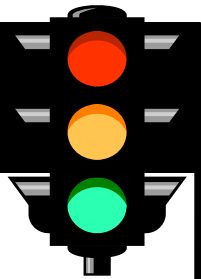
**2006**

**Section 5: Speed-Related Crashes**

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## SPEED

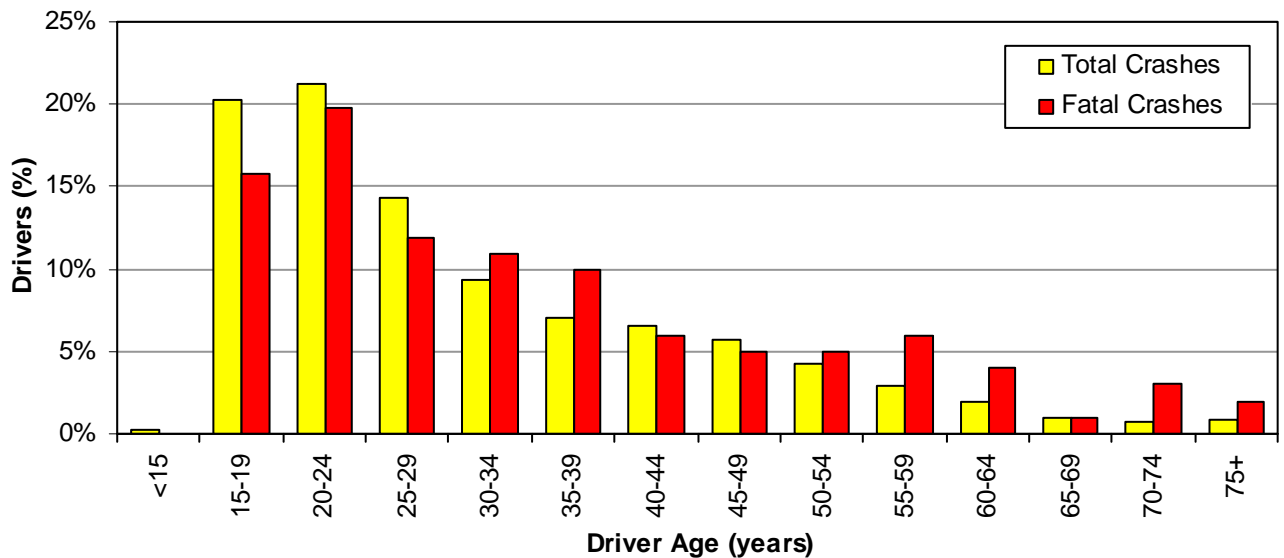


*Speed is the leading unsafe driving behavior that contributes to crashes.*

### Did you know in 2006:

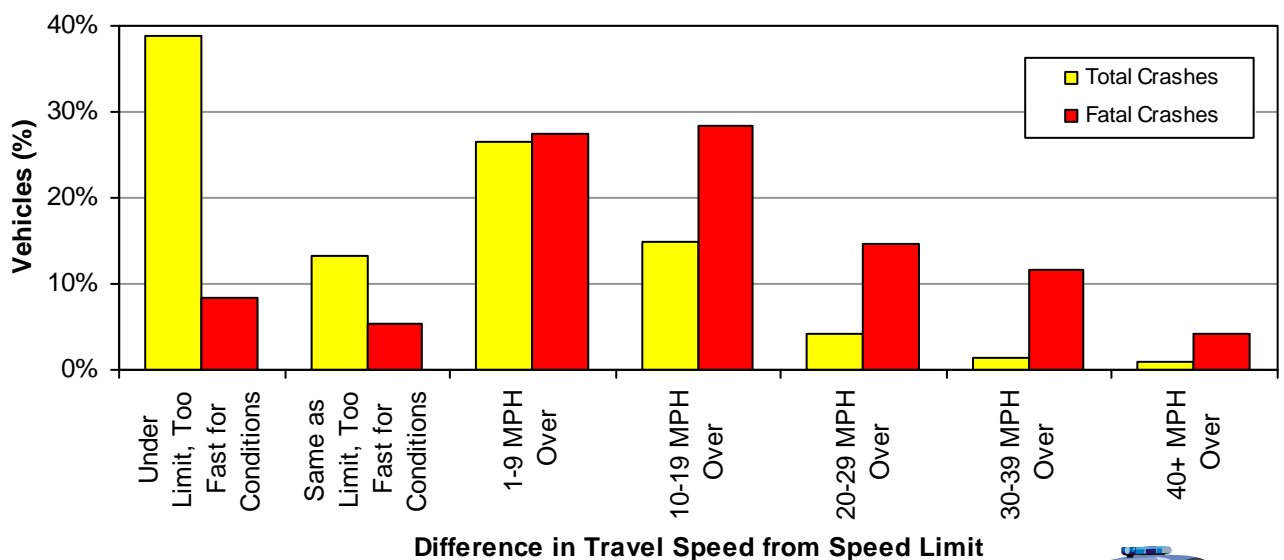
- 10,083 speed-related crashes occurred in Utah which resulted in 5,493 injured persons and 113 deaths.
- Speed-related crashes were 2.8 times more likely to be fatal than other motor vehicle crashes.
- A speed-related crash occurred in Utah every 52 minutes.

### Age of Drivers in Speed-Related Crashes (Utah 2006)



- Drivers aged 15-24 years had the highest percentage of total speed-related crashes and fatal crashes.

### Speed-Related Crashes by Difference in Travel Speed From Speed Limit (Utah 2006)



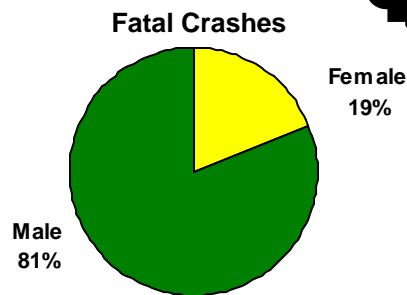
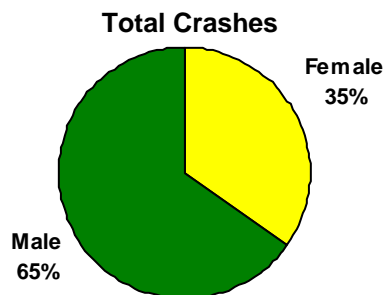
- Speed-related vehicles in fatal crashes were more likely to be exceeding the posted speed limit by greater amounts.



## SPEED

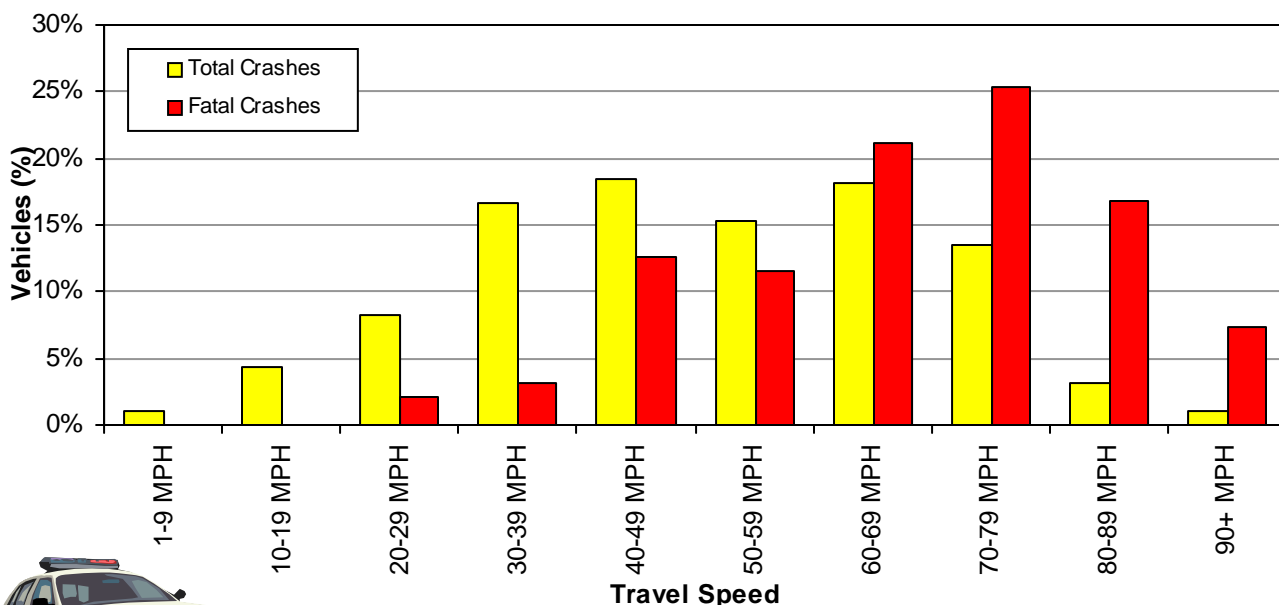


**Gender of Drivers in Speed-Related Crashes (Utah 2006)**



- The majority of speeding drivers in all motor vehicle crashes (65%) and fatal crashes (81%) were male.

**Speed-Related Crashes by Travel Speed (Utah 2006)**



- Speed-related vehicles in fatal crashes were more likely to be traveling at higher speeds.

Speeding is one of the most common factors contributing to traffic crashes. Speeding is dangerous because it:

- Reduces a driver's ability to steer safely around curves or objects in the roadway;
- Extends the distance necessary to stop a vehicle;
- Increases the distance a vehicle travels while the driver reacts to a situation;
- Increases the number of crashes;
- Increases the severity of crashes. For every 10 MPH over 50 MPH, the risk of death in a crash is doubled.



Drivers need to remember there is a reason for speed limits. The roadways are a dangerous place and the speed limits are designed to protect everyone—drivers, passengers, and pedestrians. The posted speed limit is the law. Slow down and obey speed limits.

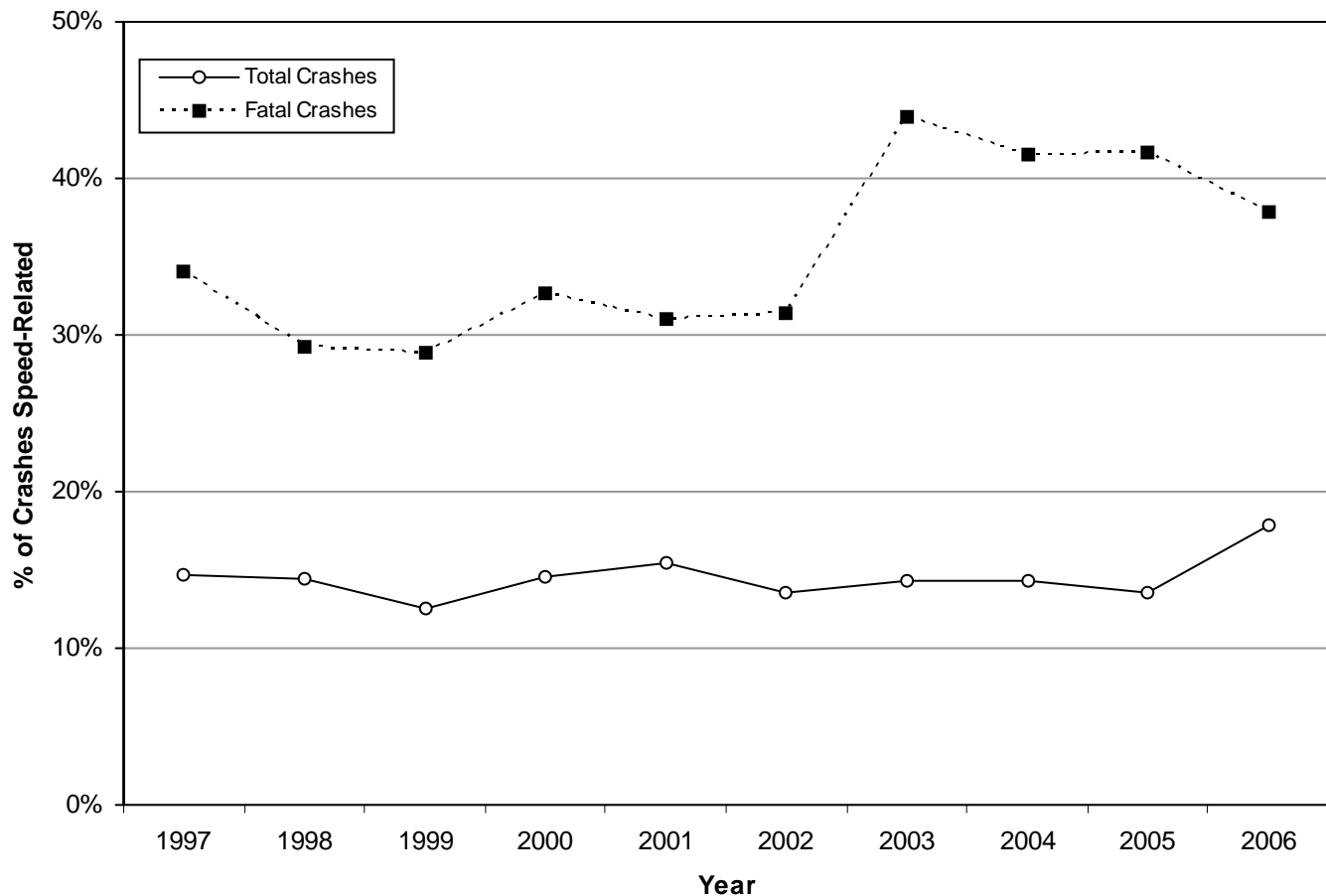


## Trends

## Speed-Related Crashes (Utah 1997-2006)

Speed-Related Crashes												
	Property Damage Only			Injury			Fatal			Total		
	All	Speed	Speed	All	Speed	Speed	All	Speed	Speed	All	Speed	Speed
Year	#	#	%	#	#	%	#	#	%	#	#	%
1997	33,512	4,823	14.4%	21,131	3,151	14.9%	309	105	34.0%	54,952	8,079	14.7%
1998	34,337	4,717	13.7%	19,427	2,981	15.3%	308	90	29.2%	54,072	7,788	14.4%
1999	32,971	3,836	11.6%	19,513	2,652	13.6%	318	92	28.9%	52,802	6,580	12.5%
2000	33,269	4,687	14.1%	19,564	2,934	15.0%	318	104	32.7%	53,151	7,725	14.5%
2001	33,113	5,037	15.2%	19,332	3,003	15.5%	258	80	31.0%	52,703	8,120	15.4%
2002	33,542	4,379	13.1%	19,552	2,770	14.2%	274	86	31.4%	53,368	7,235	13.6%
2003	31,842	4,498	14.1%	18,285	2,604	14.2%	262	115	43.9%	50,389	7,217	14.3%
2004	34,222	4,836	14.1%	19,423	2,764	14.2%	260	108	41.5%	53,905	7,708	14.3%
2005	35,158	4,676	13.3%	19,545	2,653	13.6%	235	98	41.7%	54,938	7,427	13.5%
2006	37,749	6,450	17.1%	18,189	3,539	19.5%	249	94	37.8%	56,187	10,083	17.9%
<b>Total</b>	<b>339,715</b>	<b>47,939</b>	<b>14.1%</b>	<b>193,961</b>	<b>29,051</b>	<b>15.0%</b>	<b>2,791</b>	<b>972</b>	<b>34.8%</b>	<b>536,467</b>	<b>77,962</b>	<b>14.5%</b>

NOTE: Definition of speed-related crashes modified in 2006.



- Speed-related crashes are a concern because of the increased potential for severe injury and death.
- The 10-year trend shows that 14.5% of total crashes and 34.8% of fatal crashes in Utah are speed-related.
- Speed was a factor in 44.8% of fatal crashes in 2006 where speed was known.

## Counties

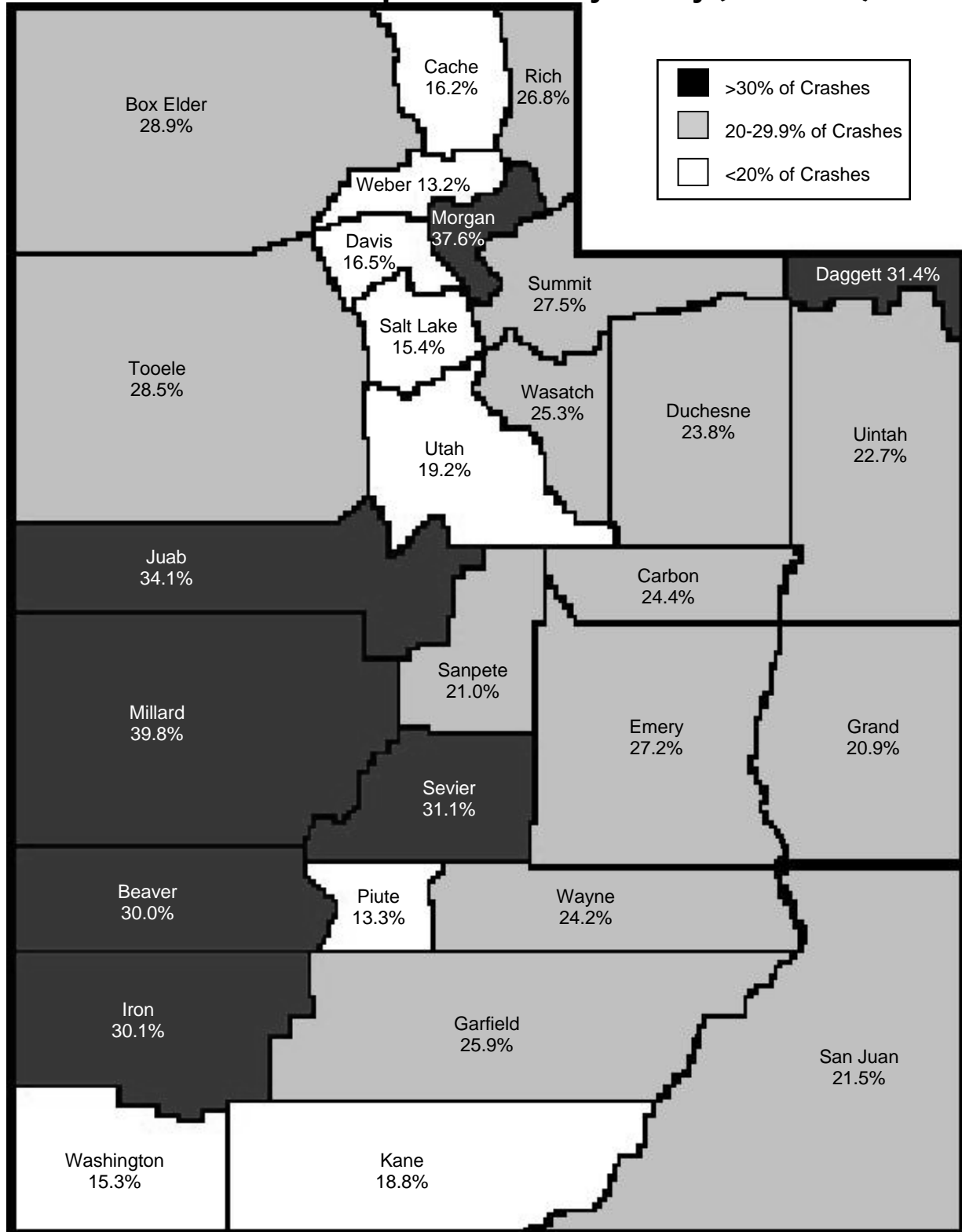
### Speed-Related Crashes by County (Utah 2006)

Speed-Related Crashes								
	Property Damage Only		Injury		Fatal		Total	
		Rate		Rate		Rate		Rate
		per 100		per 100		per 100		per 100
		Million		Million		Million		Million
County	#	VTM	#	VTM	#	VTM	#	VTM
Wasatch	109	36.8	56	18.9	2	0.67	167	56.3
Duchesne	59	27.1	41	18.9	1	0.46	101	46.5
Uintah	92	26.1	66	18.7	4	1.14	162	46.0
Daggett	11	31.0	5	14.1	0	0.00	16	45.1
Iron	178	26.4	115	17.0	6	0.89	299	44.3
Summit	223	30.4	92	12.6	4	0.55	319	43.5
Salt Lake	2,542	29.7	1,110	13.0	24	0.28	3,676	43.0
Weber	389	25.0	255	16.4	4	0.26	648	41.6
Utah	918	25.2	586	16.1	9	0.25	1,513	41.5
Carbon	77	26.3	39	13.3	1	0.34	117	39.9
Morgan	37	25.9	19	13.3	0	0.00	56	39.2
Wayne	8	20.8	7	18.2	0	0.00	15	38.9
Sevier	90	20.9	69	16.0	1	0.23	160	37.2
Davis	587	23.8	319	12.9	2	0.08	908	36.8
Millard	103	22.1	63	13.5	4	0.86	170	36.5
Rich	13	23.8	6	11.0	0	0.00	19	34.8
Garfield	30	25.6	7	6.0	1	0.85	38	32.4
Cache	205	21.3	100	10.4	5	0.52	310	32.2
Washington	212	16.7	184	14.5	6	0.47	402	31.7
Sanpete	47	18.6	32	12.7	0	0.00	79	31.3
Juab	91	22.3	35	8.6	0	0.00	126	30.8
Kane	28	20.1	11	7.9	2	1.44	41	29.5
Tooele	147	16.2	104	11.5	6	0.66	257	28.3
Beaver	35	13.5	29	11.2	1	0.39	65	25.1
Box Elder	131	13.8	99	10.4	4	0.42	234	24.6
Emery	45	12.7	35	9.9	3	0.85	83	23.4
Piute	1	3.7	5	18.4	0	0.00	6	22.1
San Juan	25	9.0	23	8.2	4	1.43	52	18.6
Grand	17	6.1	27	9.7	0	0.00	44	15.8
<b>Statewide</b>	<b>6,450</b>	<b>24.6</b>	<b>3,539</b>	<b>13.5</b>	<b>94</b>	<b>0.36</b>	<b>10,083</b>	<b>38.5</b>

- Wasatch (56.3), Duchesne (46.5), and Uintah (46.0) counties had the highest rates of speed-related total crashes per 100 million vehicle miles traveled.
- Kane (1.44), San Juan (1.43), and Uintah (1.14) counties had the highest rates of fatal speed-related crashes per 100 million vehicle miles traveled.
- Grand (15.8), San Juan (18.6), and Piute (22.1) counties had the lowest rates of speed-related total crashes per 100 million vehicle miles traveled.

## Counties

### Percent of Crashes Speed-Related by County (Utah 2006)

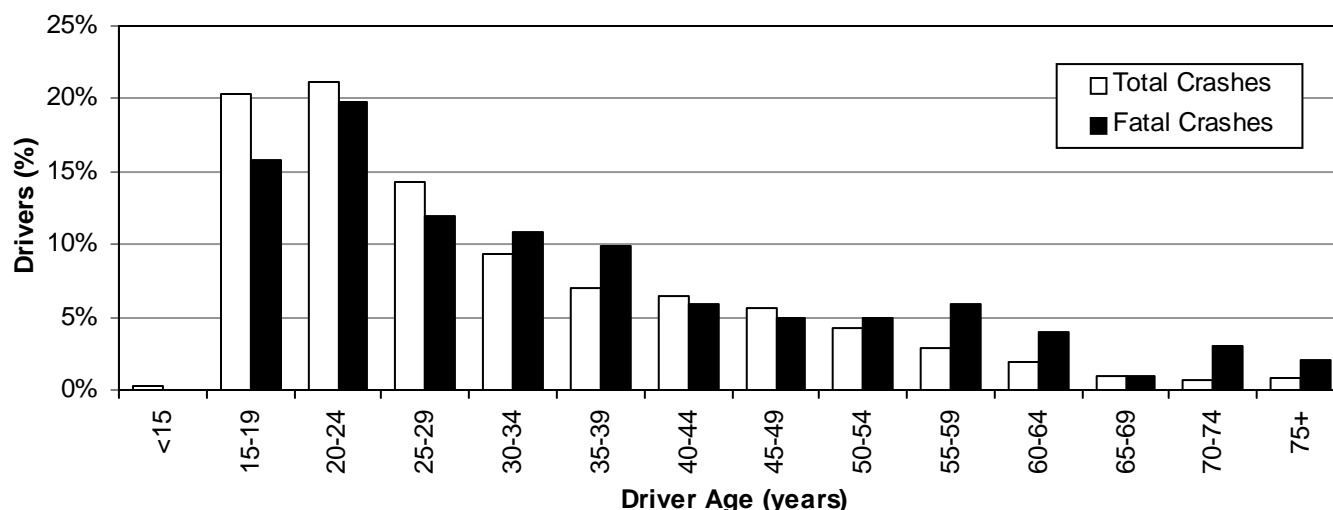


- Millard (39.8%), Morgan (37.6%), and Juab (34.1%) had the highest percent of crashes that were speed-related.

## Driver Characteristics

### Age of Drivers in Speed-Related Crashes (Utah 2006)

Drivers (Speed-Related)								
	PDO Crashes		Injury Crashes		Fatal Crashes		Total Drivers	
Age	#	%	#	%	#	%	#	%
<15	14	0.2%	20	0.5%	0	0.0%	34	0.3%
15-19	1,532	20.2%	841	20.5%	16	15.8%	2,389	20.3%
20-24	1,654	21.8%	828	20.1%	20	19.8%	2,502	21.2%
25-29	1,057	14.0%	620	15.1%	12	11.9%	1,689	14.3%
30-34	701	9.3%	392	9.5%	11	10.9%	1,104	9.4%
35-39	520	6.9%	293	7.1%	10	9.9%	823	7.0%
40-44	507	6.7%	256	6.2%	6	5.9%	769	6.5%
45-49	431	5.7%	240	5.8%	5	5.0%	676	5.7%
50-54	303	4.0%	184	4.5%	5	5.0%	492	4.2%
55-59	227	3.0%	114	2.8%	6	5.9%	347	2.9%
60-64	140	1.8%	85	2.1%	4	4.0%	229	1.9%
65-69	67	0.9%	54	1.3%	1	1.0%	122	1.0%
70-74	51	0.7%	34	0.8%	3	3.0%	88	0.7%
75+	50	0.7%	48	1.2%	2	2.0%	100	0.8%
Unknown	316	4.2%	103	2.5%	0	0.0%	419	3.6%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>



- Drivers aged 15-24 years had the highest percentage of total speed-related crashes and fatal crashes.

### Gender of Drivers in Speed-Related Crashes (Utah 2006)

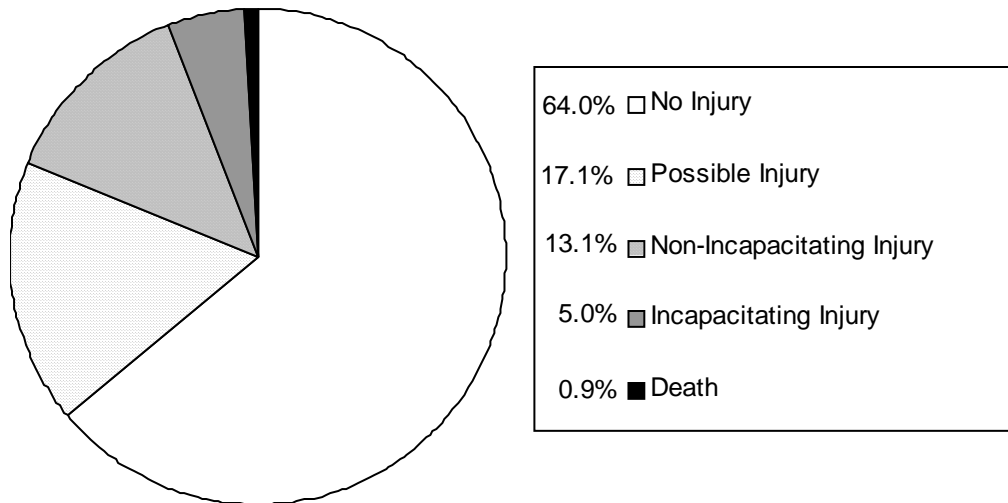
Drivers (Speed-Related)								
	PDO Crashes		Injury Crashes		Fatal Crashes		Total Drivers	
Gender	#	%	#	%	#	%	#	%
Male	4,769	63.0%	2,587	62.9%	82	81.2%	7,438	63.1%
Female	2,516	33.2%	1,439	35.0%	19	18.8%	3,974	33.7%
Unknown	285	3.8%	86	2.1%	0	0.0%	371	3.1%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>

- Male drivers represented 63.1% of the drivers in speed-related total crashes and 81.2% of the drivers in speed-related fatal crashes.



## Crash Characteristics

### Speed-Related Crash Severity (Utah 2006)



- The percentage of speed-related crashes that resulted in a non-fatal injury (35.1%) was slightly higher than the percentage of all motor vehicle crashes that resulted in a non-fatal injury (32.4%).
- In addition, a higher percentage of speed-related crashes were fatal (0.9%) compared to all fatal motor vehicle crashes (0.4%).
- In fact, speed-related crashes were 2.8 times more likely to be fatal than other motor vehicle crashes.

### Speed-Related Crashes by Urban/Rural Location (Utah 2006)

Speed-Related Crashes								
	PDO		Injury		Fatal		Total	
		Rate per		Rate per		Rate per		Rate per
		100 Million		100 Million		100 Million		100 Million
Location	#	VMT	#	VMT	#	VMT	#	VMT
Urban	4,436	27.3	2,270	14.0	39	0.24	6,745	41.6
Rural	2,014	20.3	1,269	12.8	55	0.55	3,338	33.6
<b>Total</b>	<b>6,450</b>	<b>24.6</b>	<b>3,539</b>	<b>13.5</b>	<b>94</b>	<b>0.36</b>	<b>10,083</b>	<b>38.5</b>

- While urban areas had a higher rate of total speed-related crashes per vehicle mile traveled, rural areas had a higher rate of fatal speed-related crashes per vehicle mile traveled.
- In fact, speed-related crashes occurring in rural areas were 2.9 times more likely to result in a death than speed-related crashes in urban areas.

## Crash Characteristics

### Speed-Related Crashes by Month of Year (Utah 2006)

Speed-Related Crashes									
	Days in	Property Damage Only		Injury		Fatal		Total	
Month	Month	#	Rate per Day	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	31	906	29.2	393	12.7	6	0.19	1,305	42.1
February	28	776	27.7	360	12.9	8	0.29	1,144	40.9
March	31	727	23.5	319	10.3	7	0.23	1,053	34.0
April	30	427	14.2	273	9.1	5	0.17	705	23.5
May	31	266	8.6	199	6.4	4	0.13	469	15.1
June	30	297	9.9	259	8.6	6	0.20	562	18.7
July	31	313	10.1	250	8.1	11	0.35	574	18.5
August	31	320	10.3	287	9.3	15	0.48	622	20.1
September	30	389	13.0	270	9.0	7	0.23	666	22.2
October	31	434	14.0	290	9.4	9	0.29	733	23.6
November	30	615	20.5	284	9.5	9	0.30	908	30.3
December	31	980	31.6	355	11.5	7	0.23	1,342	43.3
<b>Total</b>	<b>365</b>	<b>6,450</b>	<b>17.7</b>	<b>3,539</b>	<b>9.7</b>	<b>94</b>	<b>0.26</b>	<b>10,083</b>	<b>27.6</b>

- Overall, December (43.3), January (42.1), and February (40.9) had the highest rates of speed-related crashes per day.
- August (0.48) and July (0.35) had the highest rates per day of fatal speed-related crashes.

### Speed-Related Crashes by Day of Week (Utah 2006)

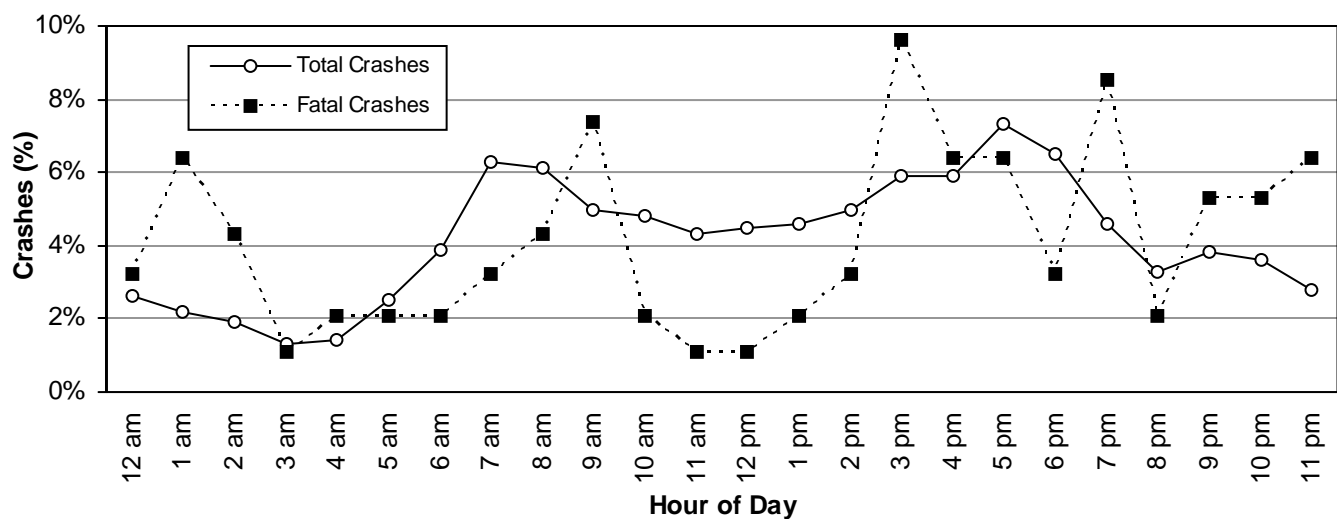
Speed-Related Crashes								
Day of Week	PDO Crashes		Injury Crashes		Fatal Crashes		Total Crashes	
	#	%	#	%	#	%	#	%
Sunday	919	14.2%	502	14.2%	16	17.0%	1,437	14.3%
Monday	770	11.9%	439	12.4%	19	20.2%	1,228	12.2%
Tuesday	746	11.6%	436	12.3%	11	11.7%	1,193	11.8%
Wednesday	1,136	17.6%	552	15.6%	8	8.5%	1,696	16.8%
Thursday	986	15.3%	501	14.2%	8	8.5%	1,495	14.8%
Friday	1,012	15.7%	561	15.9%	7	7.4%	1,580	15.7%
Saturday	881	13.7%	548	15.5%	25	26.6%	1,454	14.4%
<b>Total</b>	<b>6,450</b>	<b>100.0%</b>	<b>3,539</b>	<b>100.0%</b>	<b>94</b>	<b>100.0%</b>	<b>10,083</b>	<b>100.0%</b>

- The highest percentage of speed-related total crashes (16.8%) occurred on Wednesday while the highest percentage of fatal crashes (26.6%) occurred on Saturday.
- The lowest percentage of speed-related total crashes (11.8%) occurred on Tuesday while the lowest percentage of fatal crashes (7.4%) occurred on Friday.

## Crash Characteristics

### Speed-Related Crashes by Hour of Day (Utah 2006)

Speed-Related Crashes								
	PDO Crashes		Injury Crashes		Fatal Crashes		Total Crashes	
Hour	#	%	#	%	#	%	#	%
Midnight	165	2.6%	97	2.7%	3	3.2%	265	2.6%
1 a.m.	121	1.9%	92	2.6%	6	6.4%	219	2.2%
2 a.m.	120	1.9%	63	1.8%	4	4.3%	187	1.9%
3 a.m.	90	1.4%	42	1.2%	1	1.1%	133	1.3%
4 a.m.	80	1.2%	57	1.6%	2	2.1%	139	1.4%
5 a.m.	167	2.6%	86	2.4%	2	2.1%	255	2.5%
6 a.m.	272	4.2%	121	3.4%	2	2.1%	395	3.9%
7 a.m.	469	7.3%	160	4.5%	3	3.2%	632	6.3%
8 a.m.	435	6.7%	173	4.9%	4	4.3%	612	6.1%
9 a.m.	337	5.2%	163	4.6%	7	7.4%	507	5.0%
10 a.m.	314	4.9%	163	4.6%	2	2.1%	479	4.8%
11 a.m.	278	4.3%	156	4.4%	1	1.1%	435	4.3%
Noon	272	4.2%	183	5.2%	1	1.1%	456	4.5%
1 p.m.	275	4.3%	186	5.3%	2	2.1%	463	4.6%
2 p.m.	312	4.8%	189	5.3%	3	3.2%	504	5.0%
3 p.m.	361	5.6%	226	6.4%	9	9.6%	596	5.9%
4 p.m.	371	5.8%	216	6.1%	6	6.4%	593	5.9%
5 p.m.	472	7.3%	255	7.2%	6	6.4%	733	7.3%
6 p.m.	411	6.4%	246	7.0%	3	3.2%	660	6.5%
7 p.m.	272	4.2%	181	5.1%	8	8.5%	461	4.6%
8 p.m.	200	3.1%	132	3.7%	2	2.1%	334	3.3%
9 p.m.	250	3.9%	124	3.5%	5	5.3%	379	3.8%
10 p.m.	229	3.6%	124	3.5%	5	5.3%	358	3.6%
11 p.m.	177	2.7%	104	2.9%	6	6.4%	287	2.8%
Unknown	0	0.0%	0	0.0%	1	1.1%	1	0.0%
<b>Total</b>	<b>6,450</b>	<b>100.0%</b>	<b>3,539</b>	<b>100.0%</b>	<b>94</b>	<b>100.0%</b>	<b>10,083</b>	<b>100.0%</b>



- Total speed-related crashes peaked in the late afternoon/evening (3:00 p.m. to 6:00 p.m.), with another peak in the morning (7:00 a.m. and 8:00 a.m.).
- Fatal speed-related crashes varied by hour and were highest during the 3:00 p.m. and 7:00 p.m. hours.

## Crash Characteristics

### Speed-Related Crashes by Vehicle Type (Utah 2006)

Vehicles (Speed-Related)								
Vehicle Type	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Passenger Car	4,206	55.6%	2,133	51.9%	40	39.6%	6,379	54.1%
Pickup Truck	1,412	18.7%	708	17.2%	18	17.8%	2,138	18.1%
SUV	1,250	16.5%	696	16.9%	16	15.8%	1,962	16.7%
Semi/Large Truck	299	3.9%	162	3.9%	8	7.9%	469	4.0%
Van	264	3.5%	140	3.4%	7	6.9%	411	3.5%
Motorcycle	23	0.3%	170	4.1%	12	11.9%	205	1.7%
Bus	7	0.1%	5	0.1%	0	0.0%	12	0.1%
Other	24	0.3%	43	1.0%	0	0.0%	67	0.6%
Unknown	85	1.1%	55	1.3%	0	0.0%	140	1.2%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>

- For total speed-related crashes, passenger car (54.1%) and pickup truck (18.1%) were the leading vehicle types.
- For fatal speed-related crashes, passenger car (39.6%) and pickup truck (17.8%) were the leading vehicle types.

### Speed-Related Crashes by Speed Limit (Utah 2006)

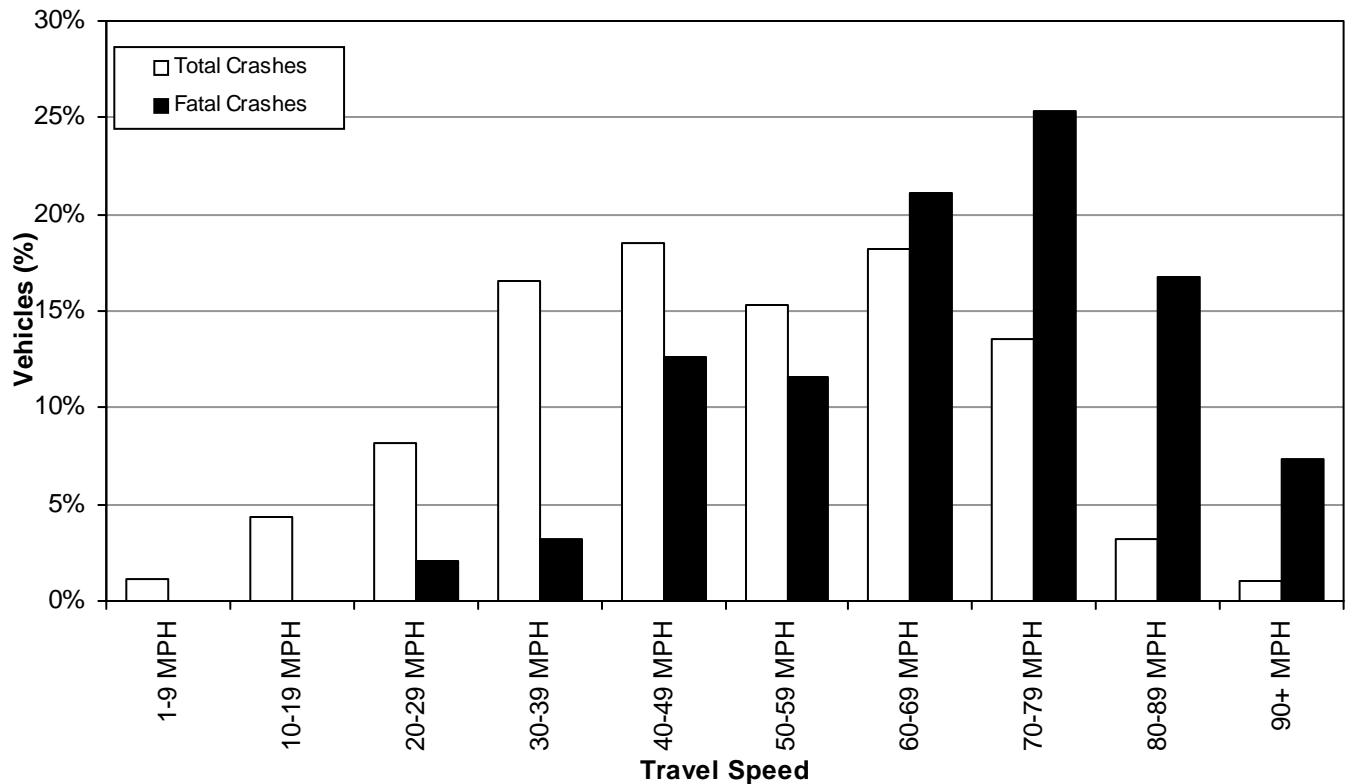
Speed-Related Vehicles								
Speed Limit	PDO Crashes		Injury Crashes		Fatal Crashes		Total Crashes	
	#	%	#	%	#	%	#	%
5-15 MPH	50	0.7%	26	0.6%	2	2.0%	78	0.7%
20-25 MPH	964	12.7%	527	12.8%	7	6.9%	1,498	12.7%
30-35 MPH	949	12.5%	708	17.2%	18	17.8%	1,675	14.2%
40-45 MPH	886	11.7%	651	15.8%	10	9.9%	1,547	13.1%
50-55 MPH	775	10.2%	434	10.6%	22	21.8%	1,231	10.4%
60-65 MPH	2,664	35.2%	1,089	26.5%	25	24.8%	3,778	32.1%
70-75 MPH	580	7.7%	351	8.5%	16	15.8%	947	8.0%
Unknown	702	9.3%	326	7.9%	1	1.0%	1,029	8.7%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>

- Over one-third (35.1% where speed limit was known) of total speed-related crashes occurred where the speed limit was 60-65 MPH.
- Fatal speed-related crashes were more likely to occur where there were higher speed limits. Nearly two-thirds (63.0% where speed limit was known) of fatal speed-related crashes occurred where the speed limit was 50 MPH or higher.
- Speed-related crashes where the speed limit was 50 MPH or higher were 1.6 times more likely to be fatal.
- When compared to all crashes, speed-related crashes were more likely to occur on roads with higher speed limits.

## Crash Characteristics

### Speed-Related Crashes by Travel Speed (Utah 2006)

Speed-Related Vehicles								
Travel Speed	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Stopped Vehicle	0	0.0%	0	0.0%	0	0.0%	0	0.0%
1-9 MPH	87	1.1%	26	0.6%	0	0.0%	113	1.0%
10-19 MPH	365	4.8%	75	1.8%	0	0.0%	440	3.7%
20-29 MPH	615	8.1%	216	5.3%	2	2.0%	833	7.1%
30-39 MPH	1,107	14.6%	569	13.8%	3	3.0%	1,679	14.2%
40-49 MPH	1,127	14.9%	739	18.0%	12	11.9%	1,878	15.9%
50-59 MPH	973	12.9%	566	13.8%	11	10.9%	1,550	13.2%
60-69 MPH	1,176	15.5%	644	15.7%	20	19.8%	1,840	15.6%
70-79 MPH	863	11.4%	486	11.8%	24	23.8%	1,373	11.7%
80-89 MPH	144	1.9%	161	3.9%	16	15.8%	321	2.7%
90+ MPH	27	0.4%	72	1.8%	7	6.9%	106	0.9%
Unknown	1,086	14.3%	558	13.6%	6	5.9%	1,650	14.0%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>

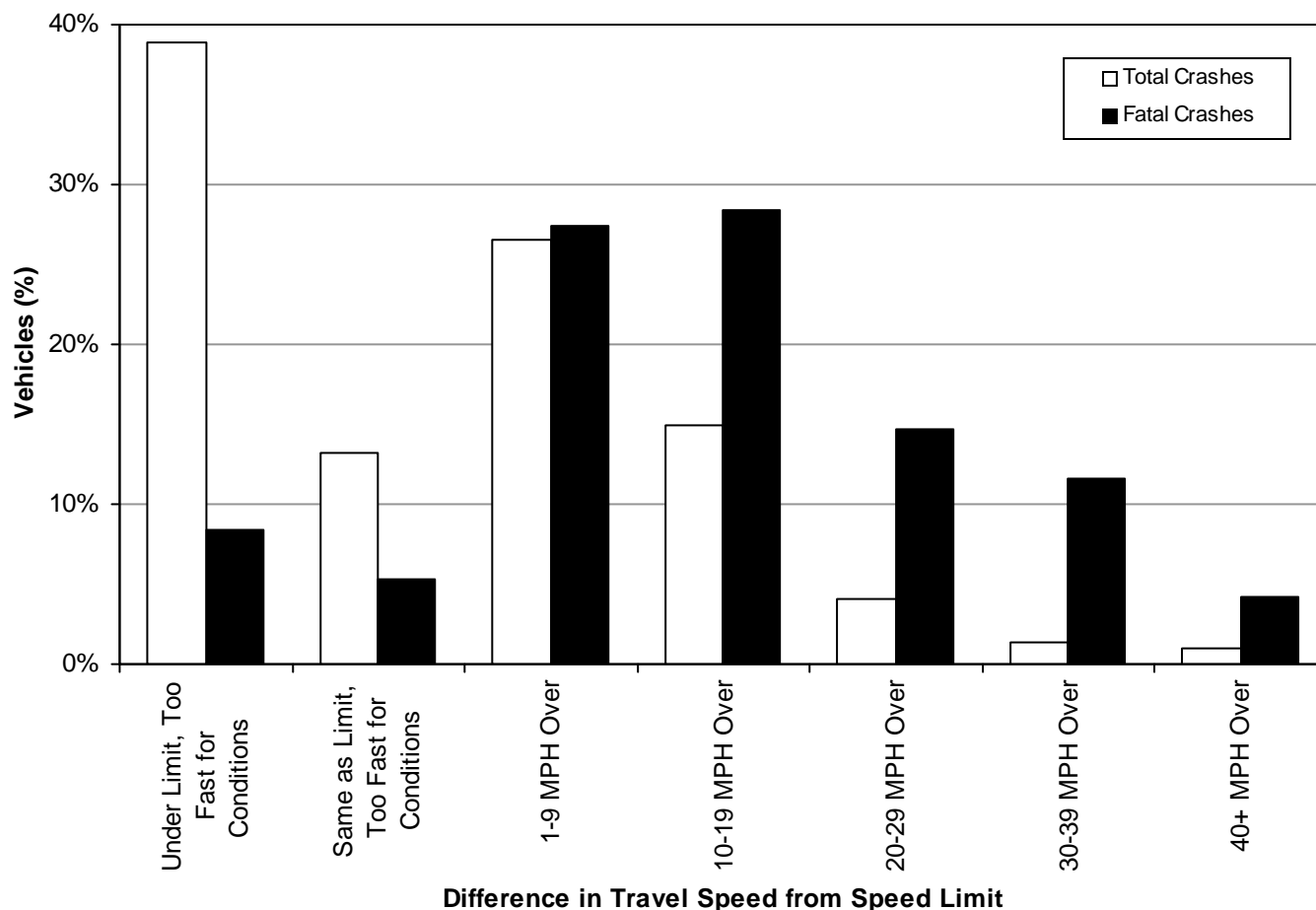


- Over two-thirds (68.6% where travel speed was known) of vehicles in total speed-related crashes were traveling 30-69 MPH.
- Over two-thirds (70.5% where travel speed was known) of vehicles in fatal speed-related crashes were traveling 60 MPH or higher.
- Speed-related vehicles in fatal crashes were more likely to be traveling at higher speeds.

## Crash Characteristics

### Speed-Related Crashes by Difference in Travel Speed From Speed Limit (Utah 2006)

Speed-Related Vehicles								
Travel Speed vs. Speed Limit	PDO Crashes		Injury Crashes		Fatal Crashes		Total	
	#	%	#	%	#	%	#	%
Under Speed Limit, Too Fast for Conditions	2,827	37.3%	1,031	25.1%	8	7.9%	3,866	32.8%
Same as Speed Limit, Too Fast for Conditions	887	11.7%	424	10.3%	5	5.0%	1,316	11.2%
1-9 MPH Over Speed Limit	1,601	21.1%	1,008	24.5%	26	25.7%	2,635	22.4%
10-19 MPH Over Speed Limit	800	10.6%	661	16.1%	27	26.7%	1,488	12.6%
20-29 MPH Over Speed Limit	181	2.4%	217	5.3%	14	13.9%	412	3.5%
30-39 MPH Over Speed Limit	49	0.6%	69	1.7%	11	10.9%	129	1.1%
40+ MPH Over Speed Limit	32	0.4%	67	1.6%	4	4.0%	103	0.9%
Unknown	1,193	15.8%	635	15.4%	6	5.9%	1,834	15.6%
<b>Total</b>	<b>7,570</b>	<b>100.0%</b>	<b>4,112</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>11,783</b>	<b>100.0%</b>



- It is troubling to see that 4,767 vehicles in total crashes were traveling over the posted speed limit.
- Speed-related vehicles in fatal crashes were more likely to be exceeding the posted speed limit by greater amounts.
- Nearly nine out of every ten speed-related vehicles (86.3% where speed was known) in fatal crashes were traveling over the posted speed limit.